EAST Search History

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L1	1006	703/13.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/16 16:19

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L5	59	((s adj parameter$1) or (s-parameter$1) or (s adj matrix) or (s-matrix)) and (network adj analyzer$1) and impulse	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/16 16:33
L6	1	"7019535".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/16 16:33
L7	16	((s adj parameter$1) or (s-parameter$1) or (s adj matrix) or (s-matrix)) and (network adj analyzer$1) and (time near gat$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/16 18:00
L8	41	((s adj parameter$1) or (s-parameter$1) or (s adj matrix) or (s-matrix)) and (time near gat$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/16 18:05
L9	1	"6356163".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/16 18:05

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L10	3	((s adj parameter$1) or (s-parameter$1) or (s adj matrix) or (s-matrix)) and (network adj analyzer$1) and telegrapher$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/16 18:15
L11	9	((s adj parameter$1) or (s-parameter$1) or (s adj matrix) or (s-matrix)) and telegrapher$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/16 18:16
L12	17	((s adj parameter$1) or (s-parameter$1) or (s adj matrix) or (s-matrix))	IBM_TDB	OR	OFF	2006/12/16 18:16

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L6	23	de-embedding and ((s adj parameter$1) or (s-parameter$1)) and (scale or scaling)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/12/18 15:40
L7	48	de-embedding and ((s adj parameter$1) or (s-parameter$1)) and (transmission adj lin$2)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/12/18 15:41

Results for "(time domain gating<in>metadata)"
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IEEE STD	IEEE Standard

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1. **A systematic error analysis of HP 8510 time-domain gating techniques with experimental verification**
Lu, K.; Brazil, T.J.;
Microwave Symposium Digest, 1993., IEEE MTT-S International
14-18 June 1993 Page(s):1259 - 1262 vol.3
Digital Object Identifier 10.1109/MWSYM.1993.277102
AbstractPlus | Full Text: PDF(252 KB) IEEE CNF
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2. **Improvement in antenna factor measurements using time-domain gating**
Kashyap, S.; Mishra, S.R.;
Electromagnetic Compatibility, 1988. Symposium Record. IEEE 1988 International Symposium on
2-4 Aug. 1988 Page(s):82 - 86
Digital Object Identifier 10.1109/ISEMC.1988.14092
AbstractPlus | Full Text: PDF(224 KB) IEEE CNF
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3. **Improved Free-Space S-Parameter Calibration**
Bartley, P.G.; Begley, S.B.;
Instrumentation and Measurement Technology Conference, 2005. IMTC 2005. Proceedings of the IEEE
Volume 1, 16-19 May 2005 Page(s):372 - 375
AbstractPlus | Full Text: PDF(200 KB) IEEE CNF
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4. **Nondestructive sensing of physical properties of granular materials by microwave permittivity measurement**
Trabelsi, S.; Nelson, S.O.;
Instrumentation and Measurement, IEEE Transactions on
Volume 55, Issue 3, June 2006 Page(s):953 - 963
Digital Object Identifier 10.1109/TIM.2006.873787
AbstractPlus | Full Text: PDF(424 KB) IEEE JNL
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5. **A free-space method for measurement of dielectric constants and loss tangents at microwave frequencies**
Ghodgaonkar, D.K.; Varadan, V.V.; Varadan, V.K.;
Instrumentation and Measurement, IEEE Transactions on
Volume 38, Issue 3, June 1989 Page(s):789 - 793
Digital Object Identifier 10.1109/19.32194
AbstractPlus | Full Text: PDF(360 KB) IEEE JNL
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6. **Extracting μ_r and ε$_r$ of solids from one-port phasor network analyzer measurements**
Sequeira, H.B.;
Instrumentation and Measurement, IEEE Transactions on
Volume 39, Issue 4, Aug. 1990 Page(s):621 - 627
Digital Object Identifier 10.1109/19.57244

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Results **1 - 7** of **7** for **"s parameters" telegraphers**. (**0.07** seconds)

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A Cangellaris
A Ruehli

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A new formulation for the analysis of non-uniform transmissionlines using frequency-varying basis ...
AB Kouki, A Hamade, FM Ghannouchi - Microwave Symposium Digest, 1995., IEEE MTT-S International, 1995 - ieeexplore.ieee.org
... structure can he described 817 in terms of the **telegraphers**' equations with ... voltage coefficients was obtained which would yield the **S-parameters** of structure ...
Cited by 1 - Related Articles - Web Search - BL Direct

S-parameter VLSI transmission line analysis - group of 2 »
BJ Cooke, JL Prince, AC Cangellaris, OA Palusinski - Electronic Components Conference, 1989. Proceedings., 39th, 1989 - ieeexplore.ieee.org
... length (meter) **S-parameters** of the frequency dependent coupled lines can be derived in the following manner. The frequency domain **Telegraphers** equations for a ...
Web Search - Library Search

A CAD-Suitable Approach for the Analysis of Nonuniform MMIC and MHMIC Transmission Lines
I INTRODUCTION - IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, 1996 - ieeexplore.ieee.org
... in such a structure can be described in terms of the **telegraphers**' equations wiLh ... with kit =0 s 2 = Using these results, and the **S-parameters** definition s ...
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Embedded ground planes using sidewall insulators for high frequencyinterconnections in integrated ...
DS Gardner, QT Vu, PJ van Wijnen, TJ Maloney, DB ... - Electron Devices Meeting, 1993. Technical Digest., ..., 1993 - ieeexplore.ieee.org
... iork port **S-parameters** were measured to se interconnects. ... y and the characteristic then be used to determine the parasitics by to the **Telegraphers**' equation. ...
Web Search - BL Direct

Efficient simulation of interconnects in high-speed circuits
E Dautbegovic, M Condon - High Frequency Postgraduate Student Colloquium, 2003, 2003 - ieeexplore.ieee.org
... assuming TEM mode of propagation, is described by the **Telegraphers** Equations: dV ... of the overall z-domain rational functions approximating they or **s parameters**. ...
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MS Basel - 1993 - ncsu.edu
... 43 4.1 Effect of required filtering on two port **S-parameters**. . . . .
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Cited by 2 - Related Articles - View as HTML - Web Search

Progress in the methodologies for the electrical modeling of interconnects and electronic packages - group of 4 »
AE Ruehli, AC Cangellaris - Proceedings of the IEEE, 2001 - ieeexplore.ieee.org
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A Ruehli

S-parameter VLSI transmission line analysis - group of 2 »
BJ Cooke, JL Prince, AC Cangellaris, OA Palusinski - Electronic Components Conference, 1989. Proceedings., 39th, 1989 - ieeexplore.ieee.org
... length (meter) **S-parameters** of the frequency dependent coupled lines can be derived in the following manner. The frequency domain **Telegraphers** equations for a ...
Web Search - Library Search

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AB Kouki, A Hamade, FM Ghannouchi - Microwave Symposium Digest, 1995., IEEE MTT-S International, 1995 - ieeexplore.ieee.org
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E Dautbegovic, M Condon - High Frequency Postgraduate Student Colloquium, 2003, 2003 - ieeexplore.ieee.org
... assuming TEM mode of propagation, is described by the **Telegraphers** Equations: dV ... of the overall z-domain rational functions approximating they or **s parameters**. ...
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AE Ruehli, AC Cangellaris - Proceedings of the IEEE, 2001 - ieeexplore.ieee.org
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100 GHz wafer probes based on photoconductive sampling - group of 2 »
MD Feuer, SC Shunk, PR Smith, MC Nuss, NH Law - Photonics Technology Letters, IEEE, 1993 - ieeexplore.ieee.org
... probe, analyzed by conventional **time-gating** method, shows ... **parameters**, and refinements to the standard ... solutions to some **network analyzer** calibration equations ...
Cited by 5 - Related Articles - Web Search - BL Direct

Software for multi-port RF network analysis with a large number offrequency samples and application ...
CS Hartmann, RT Hartmann - Ultrasonics Symposium, 1990. Proceedings., IEEE 1990, 1990 - ieeexplore.ieee.org
... 2). Data transfer from the **network analyzer** uses fast DMA ... 10 data sets of 2—Port **S—Parameters** and ends ... elements or the best **time—gating** windows during ...
Cited by 3 - Related Articles - Web Search

Millimeter apparatus for transmission line and dielectric materialmeasurements by multifrequency ...
OO Drobrikhin, VF Borulko, VA Karlov - ... Electromagnetic Measurements Digest, 1996 Conference on, 1996 - ieeexplore.ieee.org
... replace a number of calibrations by calculation **S parameters**. ... The **time-gating** also allows us to cancel finite ... with the I-lewlett-Packard **network analyzer** HP 85 ...
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An In-Circuit Noncontacting Measurement Method for - group of 4 »
J Stenarson, K Yhland, C Wingqvist - IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, 2001 - ieeexplore.ieee.org
... for **S -Parameters** and Power in Planar Circuits ... diagram of the one-port vector **network analyzer** (VNA) setup ... Using the **time-gating** option of the Agilent 8510C ...
Cited by 2 - Related Articles - Web Search - BL Direct

Measurement of propagation constant in waveguides with wideband coherent terahertz spectroscopy - group of 4 »
S Hadjiloucas, RKH Galvão, JW Bowen, R Martini, M ... - Journal of the Optical Society of America B, 2003 - OSA
... piece, causing an error in the measured **S parameters**. ... process with a vector **network analyzer**, the only ... Fourier trans- form necessary for **time gating** is obviated ...
Cited by 1 - Related Articles - Web Search - BL Direct

Isolation of SAW-transducer response using 3-port measurements
PG Schelbert - Ultrasonics Symposium, 1991. Proceedings., IEEE 1991, 1991 - ieeexplore.ieee.org
... of the transducers to take the most advantage of the **time- gating**. ... the SAW part, resulting in the **S-parameters** Sdm, SdAc ... cia1 vector **network analyzer** (HP8753). ...
Cited by 1 - Related Articles - Web Search - BL Direct

Measurement and analysis for transmission characteristics of microstrip line covered with lossy ...
A Saito, A Nishikata - Electronics and Communications in Japan(Part I ..., 2003 - doi.wiley.com
... m. This is connected to a **network analyzer** (with the ... the printed substrate is eliminated by **time gating** in the ... of the MSL and then the **S parameters** are measured ...
Cited by 1 - Related Articles - Web Search - BL Direct

ANALYSIS AND DEVELOPMENT OF MICROSTRIP INTERDIGITATED STRUCTURES USING FDTD AND STATISTICAL ... - group of 5 »
JG Colom - 1998 - remcom.com

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All Results
B Tromberg
N Shah
R Lanning
A Cerussi
J Espinoza

A 5-watt, 37-GHz monolithic grid amplifier - group of 4 »
B Deckman, DS Deakin Jr, E Sovero, D Rutledge - Microwave Symposium Digest., 2000 IEEE MTT-S International, 2000 - ieeexplore.ieee.org
... of the power incident on the polarizer is detected by the **network analyzer**, which is ... The **time-gating** functions of the network an- alyzer were used to eliminate ...
Cited by 13 - Related Articles - Web Search - BL Direct

AVNA-based polarimetric scatterometers - group of 3 »
FT Ulaby, MW Whitt, K Sarabandi - Antennas and Propagation Magazine, IEEE, 1990 - ieeexplore.ieee.org
... With the recent introduction of the Automatic Vector **Network Analyzer** (AVNA), making accurate measurements of both the magnitude and phase of the scattered ...
Cited by 19 - Related Articles - Web Search

The theory, design, and applications of surface acoustic wave Fourier-transform processors - group of 3 »
MA Jack, PM Grant, JH Collins - Proceedings of the IEEE, 1980 - ieeexplore.ieee.org
... When the second processor performs an inverse Fourier transform, simple **time gating** can be used to provide a band- stop/bandpass filtering function [421, [431 ...
Cited by 30 - Related Articles - Web Search

Non-Invasive In Vivo Characterization of Breast Tumors Using Photon Migration Spectroscopy - group of 6 »
BJ Tromberg, N Shah, R Lanning, A Cerussi, J ... - Neoplasia, 2000 - mips.stanford.edu
... By **time-gating** the detector, one can adjust the ``viewing volume'' in the tissue ... The core component of the FDPM apparatus is a **network analyzer** (Hewlett Packard ...
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High extinction ratio and saturation power traveling-waveelectroabsorption modulator - group of 4 »
YJ Chiu, HF Chou, V Kaman, P Abraham, JE Bowers - Photonics Technology Letters, IEEE, 2002 - ieeexplore.ieee.org
... response was measured by a HP Lightwave Component **Network analyzer** (HP8703A ... power and pulsewidths are the walkoff time and the **time-gating** window distributively ...
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Surface Transverse Wave Propagation Under Metal Strip Gratings
DF Thompson, BA Auld - Ultrasonics Symposium, IEEE 1986, 1986 - ieeexplore.ieee.org
... the frequency response of the device with both the feedthrough and the triple transient removed, using the **time-gating** feature ... of the 8510 **network analyzer**. ...
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Time delay characteristics of 2.4 GHz band radio propagationchannels in room environments
YP Zhang, Y Hwang - Personal, Indoor and Mobile Radio Communications, 1994. ..., 1994 - ieeexplore.ieee.org
... HRcUn)Hp2Cio))HNa(jo)) (2) (3) The contribution of the **network analyzer** itself and ... FFT to get the tinie domain s21(t), thirdly apply **time gating** technique to ...
Cited by 6 - Related Articles - Web Search

Calibration of ultrasonic hydrophone probes up to 100 MHz using **time gating** frequency analysis and ... - group of 4 »
EG Radulescu, PA Lewin, J Wójcik, A Nowicki - Ultrasonics, 2003 - Elsevier
... The **time gating** (ensuring free field conditions) was implemented with the help of **network analyzer** 8753ES (Agilent Technologies). ...

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1. **Analysis of pulse propagation in coupled transmissions**
Schutt-Aine, J.; Mittra, R.;
Circuits and Systems, IEEE Transactions on
Volume 32, Issue 12, Dec 1985 Page(s):1214 - 1219
AbstractPlus | Full Text: PDF(664 KB) IEEE JNL
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2. **Scattering parameter transient analysis of transmission lines loaded with nonlinear terminations**
Schutt-Aine, J.E.; Mittra, R.;
Microwave Theory and Techniques, IEEE Transactions on
Volume 36, Issue 3, March 1988 Page(s):529 - 536
Digital Object Identifier 10.1109/22.3545
AbstractPlus | Full Text: PDF(608 KB) IEEE JNL
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3. **Nonlinear transient analysis of coupled transmission lines**
Schutt-Aine, J.E.; Mittra, R.;
Circuits and Systems, IEEE Transactions on
Volume 36, Issue 7, July 1989 Page(s):959 - 967
Digital Object Identifier 10.1109/31.31331
AbstractPlus | Full Text: PDF(612 KB) IEEE JNL
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4. **Computation of excess capacitances of various strip discontinuities using closed-form Green's functions**
Oh, K.S.; Schutt-Aine, J.E.; Mittra, R.;
Microwave Theory and Techniques, IEEE Transactions on
Volume 44, Issue 5, May 1996 Page(s):783 - 788
Digital Object Identifier 10.1109/22.493933
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5. **Computation of the equivalent capacitance of a via in a multilayered board using the closed-form Green's function**
Oh, K.S.; Schutt-Aine, J.E.; Mittra, R.; Bu Wang;
Microwave Theory and Techniques, IEEE Transactions on
Volume 44, Issue 2, Feb. 1996 Page(s):347 - 349
Digital Object Identifier 10.1109/22.481589
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6. **Optimal transient simulation of distributed lines**
Kuznetsov, D.; Schutt-Aine, J.E.; Mittra, R.;
Multi-Chip Module Conference, 1995. MCMC-95, Proceedings., 1995 IEEE
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Results for "((s parameters<and>time gating)<and>network analyzer) <and> (pyr >= 1951 <an..."
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IEEE STD	IEEE Standard

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1. **100 GHz wafer probes based on photoconductive sampling**
Feuer, M.D.; Shunk, S.C.; Smith, P.R.; Nuss, M.C.; Law, N.H.;
Photonics Technology Letters, IEEE
Volume 5, Issue 3, March 1993 Page(s):361 - 364
Digital Object Identifier 10.1109/68.205639
AbstractPlus | Full Text: PDF(356 KB) IEEE JNL
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2. **IEEE recommended practice for Radio-Frequency (RF) absorber evaluation in the range of 30 MHz to 5 GHz**
IEEE Std 1128-1998
30 April 1998
AbstractPlus | Full Text: PDF(620 KB) IEEE STD

3. **A microwave anechoic chamber for radar-cross section measurement**
Chung, B.K.; Chuah, H.T.; Bredow, J.W.;
Antennas and Propagation Magazine, IEEE
Volume 39, Issue 3, June 1997 Page(s):21 - 26
Digital Object Identifier 10.1109/74.598557
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4. **An in-circuit noncontacting measurement method for S-parameters and power in planar circuits**
Stenarson, J.; Yhland, K.; Wingqvist, C.;
Microwave Theory and Techniques, IEEE Transactions on
Volume 49, Issue 12, Dec. 2001 Page(s):2567 - 2572
Digital Object Identifier 10.1109/22.971651
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5. **Complete scattering parameter characterisation by FDTD method of Y-junction power dividers with small output angles**
Hum, P.J.; Leong, M.S.; Kooi, P.S.; Yeo, T.S.;
Microwaves, Antennas and Propagation, IEE Proceedings -
Volume 142, Issue 5, Oct. 1995 Page(s):379
AbstractPlus | Full Text: PDF(444 KB) IEE JNL

6. **The precision of quasi-optical null-balanced bridge techniques for S-parameter measurement**
Bowen, J.W.; Hadjiloucas, S.;
Terahertz Electronics Proceedings, 1998. THz Ninety Eight, 1998 IEEE Sixth International Conference on
3-4 Sept. 1998 Page(s):170 - 172
Digital Object Identifier 10.1109/THZ.1998.731708
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parameters of the entire structure by solving the **telegrapher's** ... By exciting one port at a time, the **S-parameters** are obtained from the expression: ...
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... on the generalized system of the **telegrapher's** equations permitting one to ... of mixed-mode **s-parameters** with time domain behavior derived from them. ...
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SPPDG Software Development
... simulators developed at Mayo are based on the **Telegrapher's** Equations, ... using generalized Z and **S-parameters** employed in microwave network analysis. ...
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Microwave Theory and Techniques, IEEE Transactions on
Volume 83, Issue 9, Part 2, Sep 1983 Page(s):58 - 138
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3. **IEEE guide to measurement of impedance and safety characteristics of large, extended or interconnected grounding systems**
IEEE Std 81.2-1991
June 1992
AbstractPlus | Full Text: PDF(1484 KB) IEEE STD

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